

PROCESS FOR LARGE-SCALE ISOLATION AND PURIFICATION OF  
HYPOTHALAMIC INHIBITORY FACTOR

ABSTRACT OF THE DISCLOSURE

- The present invention relates to a method of isolating and/or purifying
- 5 hypothalamic inhibitory factor (HIF) from a sample (e.g., tissue fluid) containing HIF.
- The present invention provides for isolation of large amounts of HIF using diafiltration, solid phase extraction and immunoaffinity techniques. In one embodiment, the invention relates to a method of purifying hypothalamic inhibitory factor from a sample containing hypothalamic inhibitory factor comprising subjecting the sample to
- 10 diafiltration, solid phase extraction and immunoaffintiy chromatography. In a particular embodiment, the invention relates to subjecting the sample to diafiltration to produce a diafiltrate of HIF; subjecting the diafiltrate to a first solid phase extraction (SPE) to produce a first fraction of HIF; subjecting the first fraction to immunoaffinity chromatography, wherein an antibody which binds to HIF is coupled to an
- 15 immunoaffinity column, to produce a second fraction of HIF; subjecting the second fraction of HIF to reverse phase HPLC chromatography to produce a third fraction of HIF; and recovering purified HIF from the third fraction.